Release notes for ENDF/B Development g-074_W_180 evaluation



December 2, 2016

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=7425,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=7425, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 74 TO 110

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=7425, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=7425, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 74

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=3 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 3
SECTION 3/ 3 NOT IN DIRECTORY RECORD NUMBER 112

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=4 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 146

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=16 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 177

Mission a section in directory so your directory is reasond up. This owner will

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=17 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 195

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=22 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 203

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=28 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 28 SECTION 3/ 28 NOT IN DIRECTORY

RECORD NUMBER 220

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7425, MF = 3, MT = 50 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 50 SECTION 3/ 50 NOT IN DIRECTORY

RECORD NUMBER 233

9. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=51 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 51 SECTION 3/ 51 NOT IN DIRECTORY

RECORD NUMBER 264

10. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=52 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 52

SECTION 3/ 52 NOT IN DIRECTORY

RECORD NUMBER 295

11. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=53 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 53 SECTION 3/ 53 NOT IN DIRECTORY

RECORD NUMBER 325

12. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=54 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 54 SECTION 3/ 54 NOT IN DIRECTORY

RECORD NUMBER 355

13. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=55 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 55 SECTION 3/ 55 NOT IN DIRECTORY

RECORD NUMBER 385

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=56 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 56 SECTION 3/ 56 NOT IN DIRECTORY

RECORD NUMBER 414

15. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=57 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 57 SECTION 3/ 57 NOT IN DIRECTORY

RECORD NUMBER 443

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7425, MF = 3, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT= 91 SECTION 3/ 91 NOT IN DIRECTORY

RECORD NUMBER 472

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7425, MF = 3, MT = 102 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT=102 SECTION 3/102 NOT IN DIRECTORY

RECORD NUMBER 500

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7425, MF = 3, MT = 103 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT=103 SECTION 3/103 NOT IN DIRECTORY

RECORD NUMBER 534

19. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=104 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT=104 SECTION 3/104 NOT IN DIRECTORY

RECORD NUMBER 560

20. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=105 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT=105 SECTION 3/105 NOT IN DIRECTORY

RECORD NUMBER 576

21. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=106 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT=106 SECTION 3/106 NOT IN DIRECTORY

RECORD NUMBER 591

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT=107 SECTION 3/107 NOT IN DIRECTORY

RECORD NUMBER 602

23. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=3, MT=111 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 3, MT=111 SECTION 3/111 NOT IN DIRECTORY

RECORD NUMBER 634

24. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7425, MF = 6, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 16 SECTION 6/ 16 NOT IN DIRECTORY

RECORD NUMBER 641

25. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7425, MF = 6, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 17 SECTION 6/ 17 NOT IN DIRECTORY

RECORD NUMBER 785

26. Missing a section in directory so your directory is messed up. This error will break everything else

 $\dot{MAT} = 7425$, MF = 6, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 22 SECTION 6/ 22 NOT IN DIRECTORY

RECORD NUMBER 839

27. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=6, MT=28 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 28 SECTION 6/ 28 NOT IN DIRECTORY

RECORD NUMBER 974

28. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=6, MT=50 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 50 SECTION 6/ 50 NOT IN DIRECTORY

RECORD NUMBER 1082

29. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=6, MT=51 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 51 SECTION 6/ 51 NOT IN DIRECTORY

RECORD NUMBER 1093

30. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=6, MT=52 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 52 SECTION 6/ 52 NOT IN DIRECTORY

RECORD NUMBER 1104

31. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=6, MT=53 (0): Directory (b)

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ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 53
SECTION 6/ 53 NOT IN DIRECTORY
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RECORD NUMBER 1115

32. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7425, MF = 6, MT = 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 54 SECTION 6/ 54 NOT IN DIRECTORY

RECORD NUMBER 1126

33. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=6, MT=55 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 55 SECTION 6/ 55 NOT IN DIRECTORY

RECORD NUMBER 1137

34. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7425, MF = 6, MT = 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 56 SECTION 6/ 56 NOT IN DIRECTORY

RECORD NUMBER 1148

35. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=6, MT=57 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 57 SECTION 6/ 57 NOT IN DIRECTORY

RECORD NUMBER 1159

36. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7425, MF=6, MT=91 (0): Directory (b)

ERROR(S) FOUND IN MAT=7425, MF= 6, MT= 91 SECTION 6/ 91 NOT IN DIRECTORY

RECORD NUMBER 1170

- fizcon Errors:
 - 1. Missing files (probably spectra for outgoing particles)

 MAT -1 MF 6 (1): Missing files (a)

ERROR(S) - MISSING SECTIONS IN MAT -1 MF 6

PRESENCE OF FILE 3, MT= 102 REQUIRES AN EQUIVALENT SECTION IN FILE 6

PRESENCE OF FILE 3, MT= 103 REQUIRES AN EQUIVALENT SECTION IN FILE 6

PRESENCE OF FILE 3, MT= 104 REQUIRES AN EQUIVALENT SECTION IN FILE 6

PRESENCE OF FILE 3, MT= 105 REQUIRES AN EQUIVALENT SECTION IN FILE 6

... [3 more lines]

- fudge-4.0 Errors:
 - 1. Calculated and tabulated Q values disagree. reaction label 0: n + W179 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9235199.664855957 eV vs -8.4121e6 eV!

2. Calculated and tabulated Q values disagree. reaction label 1: n + W179-e1 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9355099.664855957 eV vs -8.532e6 eV!

3. Calculated and tabulated Q values disagree. reaction label 2: n + W179-e2 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9457099.664855957 eV vs -8.634e6 eV!

4. Calculated and tabulated Q values disagree. reaction label 3: n + W179-e3 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9499799.664855957 eV vs -8.6767e6 eV!

5. Calculated and tabulated Q values disagree. reaction label 4: n + W179_e4 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9539999.664855957 eV vs -8.7169e6 eV!

6. Calculated and tabulated Q values disagree. reaction label 5: n + W179-e5 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9544199.664855957 eV vs -8.7211e6 eV!

7. Calculated and tabulated Q values disagree. reaction label 6: n + W179-e6 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9553599.664855957 eV vs -8.7305e6 eV!

8. Calculated and tabulated Q values disagree. reaction label 7: n + W179-e7 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9607999.664855957 eV vs -8.7849e6 eV!

9. Calculated and tabulated Q values disagree. reaction label 8: $n + W179_c$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9607999.664855957 eV vs -8.7849e6 eV!

10. Calculated and tabulated Q values disagree. reaction label 9: n[multiplicity:'2'] + W178 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -16194116.65698242 eV vs -1.535e7 eV!

11. Calculated and tabulated Q values disagree.

reaction label 10: n/multiplicity: '3' | + W177 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -24979670.18786621 eV vs -2.4131e7 eV!

12. Calculated and tabulated Q values disagree. reaction label 11: n + H1 + Ta178 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15320469.62921143 eV vs -1.4477e7 eV!

13. Calculated and tabulated thresholds don't agree reaction label 12: W180 + gamma / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.e6 eV!

14. Calculated and tabulated Q values disagree. reaction label 13: n + He4 + Hf175 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6479829.235656738 eV vs -5.6551e6 eV!

15. Calculated and tabulated Q values disagree.

reaction label 14: H1[multiplicity:'2'] + Hf178 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -12601123.03695679 eV vs -1.1779e7 eV!

16. Calculated and tabulated Q values disagree. reaction label 15: H1 + Ta179-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7390100.289978027 eV vs -6.5707e6 eV!

17. Calculated and tabulated Q values disagree. reaction label 16: H2 + Ta178-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13095903.52828979 eV vs -1.2252e7 eV!

18. Calculated and tabulated Q values disagree. reaction label 17: H3 + Ta177_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13693626.32366943 eV vs -1.287e7 eV!

19. Calculated and tabulated Q values disagree. reaction label 18: He3 + Hf177-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -12509035.53546143 eV vs -1.1687e7 eV!

20. Calculated and tabulated Q values disagree. reaction label 19: He4 + Hf176_s / Cross section: (Error # 0): Q mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.e6 eV!
WARNING: Calculated and tabulated Q-values disagree: 1685149.920196533 eV vs 2.5101e6 eV!

- xsectplotter Warnings:
 - 1. Encountered runtime warning in xsect plotter or Fudge or matplotlib (Error # 2): Runtime Warning

/usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/font_manager.py:273: Uusr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/pyplot.py:524: Runtime

2. Encountered runtime warning in xsectplotter or Fudge or matplotlib

/usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/pyplot.py:524:

RuntimeWarning: More than 20 figures have been opened. Figures created through the
pyplot interface ('matplotlib.pyplot.figure') are retained until explicitly closed and may
consume too much memory. (To control this warning, see the rcParam 'figure.max_open_warning').

(Error # 0): RuntimeWarning

max_open_warning, RuntimeWarning)